Datasheet: MCA4635PE

Description: RAT ANTI MOUSE CD4:RPE
Specificity: CD4
Other names: L3T4 ANTIGEN, LY-4
Format: RPE
Product Type: Monoclonal Antibody
Clone: GK1.5
Isotype: IgG2b
Quantity: 100 TESTS

Product Details
RRID AB_10612250

Applications
This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

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<tr>
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<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species Mouse

Product Form Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution Reconstitute with 1ml distilled water

Max Ex/Em

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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
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Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative

- 0.09% Sodium Azide (NaN₃)
- 1% Bovine Serum Albumin
- 5% Sucrose

Stabilisers

Immunogen Murine CD4.

External Database Links

UniProt:
Related reagents

Fusion Partners
Spleen cells from immunised Lewis rats were fused with cells of the SP2/0 myeloma cell line.

Specificity
Rat anti Mouse CD4 antibody, clone GK1.5 recognizes mouse CD4, a ~55 kDa protein also known as Ly-4 and L3T4. CD4 is a single chain transmembraneous glycoprotein which belongs to the immunoglobulin superfamily, and is primarily expressed on T helper cells, peripheral blood monocytes and tissue macrophages. CD4 is also expressed on a subpopulation of regulatory T cells (CD4+ CD25+), which play a key role in the maintenance of self tolerance.

Rat anti Mouse CD4 antibody, clone GK1.5 has been reported to block CD4+ T-cell activation. It blocks class II MHC antigen-specific binding, thereby inhibiting functions such as class II MHC antigen-specific proliferation and the release of lymphokines. It may also be used for in vivo and in vitro cell depletion of CD4+ T-cells.

Flow Cytometry
Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).

References
associated variant-dependent manner and modify brain microglia in absence of brain pathology

Heliyon. 4 (1): e00513.

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet documentation #10075 available at:

Regulatory

For research purposes only

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